

ABSTRACT OF THE DISCLOSURE

A nonlinear broadcast system with improved entire resource utilization efficiency gives priority to securing hardware resources for broadcast, for preventing broadcast accidents.

5 A hardware resource management unit determines resource allocation at reproduction start time and reproduction end time of each video data, based on a time schedule of an editing list in a HDD for reproducing plurality of video data. A hardware resource amount such as bandwidth for access to the  
10 hard disc is made varied to minimize an allocation amount to each video data. Suppose one video data transfer from the HDD for reproduction requires bandwidth 60Mbps. In a duration where one video data is reproduced, bandwidth 60Mbps is secured, while in a duration where two video data are mixed and reproduced,  
15 bandwidth 120Mbps is secured. To background processing such as network material transfer, allocation is performed by fully utilizing the remaining hardware resource after the allocation for reproduction.